

E-27605-65 ENT(m)/EPF(n)-2/EMP(t)/EMP(h) Pu-4 IJP(c) JD/MH/JG

ACCESSION NR: AP5001642

S/0186/64/006/006/0655/0665

AUTHOR: Gureyev, Ye. S.; Kosyakov, V. N.; Yakovlev, G. N.

25
23 B

TITLE: Extraction of actinide elements with dialkyl phosphoric acids

SOURCE: Radiokhimiya, v. 6, no. 6, 1964, 655-665

TOPIC TAGS: actinide element, uranium extraction, neptunium extraction, plutonium extraction, americium extraction, cerium extraction, dialkyl phosphoric acid

ABSTRACT: The object of the work was to study the extraction of ²³⁸uranium (VI), ²³⁷neptunium (V), ²³⁹plutonium (IV), ²⁴¹americium (III) and ¹³⁷cerium (III) with dialkyl phosphoric acids from nitric acid solutions and the influence on the extraction of such factors as the length and degree of branching of the carbon atom chain of the alkyl radical, concentration of the extracting agent in the organic phase, concentration and type of the acid in the aqueous phase, and type of the neutral diluent. The nature of the dependence of the distribution coefficients of Am (III), Pu (IV), and U (VI) on the concentration of the extracting agent in the organic phase and on the content of hydrogen ions in the aqueous phase was elucidated. It was shown that when the carbon chain of the radical in the dialkyl-phosphate increases in length, the extractability of these elements increases

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slightly, and that branching of the chain causes a decrease in the distribution coefficients. The nature of the diluent also has a pronounced effect on the extraction. Orig. art. has: 7 figures, 5 formulas and 11 tables.

ASSOCIATION: none

SUBMITTED: 24Jun64

ENCL: 00

SUB CODE: IC

NO REF SOV: 004

OTHER: 011

Card 2/2

L 23078-66 EWT(m)/EWP(t) DIAAP/IJ>(c) JD/JG

ACC NR: AP6009433

SOURCE CODE: UR/0075/66/021/003/0292/0295

AUTHOR: Lobanov, Ye. M.; Gureyev, Ye. S.; Dutov, A. G.; Kist, A. A. ⁶⁷ B

ORG: Institute of Nuclear Physics AN UzbSSR, Tashkent (Institut yadernoy fiziki AN Uzbekskoy SSR)

TITLE: Determination of rare earth elements in certain metals and rocks using radioactivation method ¹⁹ ~~27~~

SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 3, 1966, 292-295

TOPIC TAGS: rare earth element, activation energy, neutron interaction, neutron radiation, radioactivity effect, spectrographic method, multi-channel analyzer

ABSTRACT: A rapid method for the determination of some rare earth elements in certain geological samples using neutron activation was developed. The method includes a rapid radiochemical treatment of the irradiated material followed by γ -spectrometric analysis on a multi-channel analyzer. Orig. art. has: 6 figures and 2 tables. [Based on author;s abstract] [NT]

UDC: 543.53

Card 1/2

L 23078-66

ACC NR: AP6009433

SUB CODE: 07,20/
OTH REF: 003/

SUBM DATE: 12Mar64/

ORIG REF: 008/

Card

2/2

UUR

L 19790-65 AFWL/AND

ACCESSION NR: AR4045764

S/0299/64/000/013/M016/M016

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 13M101

AUTHOR: Gritsman, Yu. Ya.; Gol'dina, B. G.; Gurayeva, Kh. F.;
Eyngorn, A. G.

TITLE: Investigation of possible long-term kidney preservation (at positive temperatures)

CITED SOURCE: Sb. 3 Vses. konferentsiya po peresadke tkaney i organov, 1963. Yerevan, 1963, 123-124

TOPIC TAGS: kidney, dog, preservation, autotransplantation, transplantation, temperature

TRANSLATION: Autotransplantation of nonpreserved kidneys was performed on the neck of one group of dogs. The kidney functioned in 5 of 9 experiments. With autotransplantation, dystrophic changes appeared in the kidney which did not deprive the organ of its functional capacity. In the second series of experiments kidneys were preserved at +2, +4°C. Dystrophic epithelium changes which were

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apparently irreversible (in the main parts of the convoluted tubules) appeared in the kidney structure. In the third series autotransplantation of kidneys, preserved at low positive temperatures, was performed on 16 dogs. The transplanted kidney functioned for a short period in 7 dogs, for 4 days in 1 dog, and in 1 dog urine was excreted for 39 days and then, with removal of the intact kidney, the animal died. In all cases histological investigation disclosed the presence of changes in all parts of the nephron. The glomeruli and stroma of the kidney were damaged considerably less and sometimes not at all. Thus, the advisability of preserving kidneys under temperature conditions of +1 to 4°C is dubious, because changes develop in the kidney destroying its function.

SUB CODE: LS

ENCL: 00

Card 2/2

GUREYEVA, L. I.

2
Separation of aluminum and zirconium by the method of ion exchange. Yu. I. Usenko and L. I. Gureeva (Chem. Technol. Inst., Dnepropetrovsk). *Zashchita* Lab. 22, 781-3 (1956). Zr ions are completely absorbed from 0.5-0.75N HCl by cationic resins KUI and SBR in that order of decreasing effectiveness; Wofatite-R is less effective. Al is taken up from less acidic solns.; KUI and SBR resins, however, do absorb it completely from 0.75N HCl. Sulfonated coal, Wofatite-R, and resin MSPI absorb it from 0.25N HCl only. On the basis of the above a sepn. of Al and Zr is attained by absorption on the resin, followed by elution of Zr with 1:4 HCl. If the original soln. is made up in 1.5N HCl, Al is not retained by the resins and appears in the original filtrate. — G. M. Kozlovskii

DANILOV, I.V.; GUREYEVA, N.M.; NAZAROV, F.S.

Characteristics of I.P.Pavlov's pedagogic activity. Fiziol.zhur. 39 no.5:
673-675 S-O '53. (MLRA 6:10)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk, Muzei
akad. I.P.Pavlova. 2. Filial Tsentral'nogo Gosudarstvennogo voyenno-istori-
cheskogo arkhiva SSSR. (Pavlov, Ivan Petrovich, 1849-1936)

GUREYEVA, N. M.
USSR/Biology - Physiology

FD-2286

Card 1/1 Pub 33-17/18

Author : Gureyeva, N. M.; Nazarov, F. S.

Title : ~~USSR/Biology - Physiology~~
I. P. Pavlov's stay at the Military Medical Academy, 1875-1889 (biographical data)

Periodical : Fiziol. zhur. 40, 631-637, Sep-Oct 1954

Abstract : Gives biographical data on I. P. Pavlov during his stay at the Military Medical Academy (1875-1889). Photographic copy of letter. Sixteen references.

Institution: The I. P. Pavlov Museum of the Department of Physiology of the Institute of Experimental Medicine of the Academy of Medical Sciences of the USSR and the Branch of the Central Military History Records Office USSR, Leningrad.

Submitted : November 14, 1953

GUREYEVA, H.M.; NAZAROV, F.S.

Comments of I.P.Pavlov on V.I.Danilevskii's book "Human physiology material for a biography of I.P.Pavlov. Fiziol.sbur. 41 no.5:704-706 S-O '55. (MLRA 8:12)

1. Muzei I.P.Pavlova Instituta eksperimental'noy meditsiny AMN SSSR i Filial Tsentral'nogo voyenno-istoricheskogo arkhiva v Leningrade.

(BIOGRAPHIES,
Pavlov, Ivan B.)

GUREYEVA, N.M.

Contributions to I.P. Pavlov's biography. Ivan P. Pavlov, Professor of Pharmacology at the Military Medical Academy (1890-1895); election and pedagogical work. Farm. i toks. 21 no.1:82-85 Ja-F '58. (MIRA 11:4)

1. Muzey akademika I.P.Pavlova Instituta eksperimental'noy meditsiny AMN SSSR.

(PAVLOV, IVAN PETROVICH, 1849-1936)

GUREYEVA, N.M.

I.P. Pavlov's participation in the activities of the Pedagogical
Museum of Military Educational Institutions. Fiziol.zhur. 45
no.9:1157-1162 S '59. (MIRA 13:1)

1. Muzei akademika I.P. Pavlova Instituta eksperimental'noy meditsiny
AMN SSSR, Leningrad.
(BIOGRAPHIES)
(MUSEUMS)

GUREYEVA, N.M.

The correspondence of L.Pasteur with Russian scientists with regard to the formation in Petersburg of the Pasteur (antirabies) station. Vest. AMN SSSR 15 no.9:87-90 '60. (MIRA 13:11)

1. Muzei akademika I.P.Pavlova Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR. (RABIES)

GUREYEVA, N.M.

Correspondence of L. Pasteur with some Russian public figures
at the end of the 19th century. Zhur. mikrobiol. epid. i immun.
31 no.2:117-121 D '60.
(MIRA 14:6)

1. Iz Muzeya akademika I.P.Pavlova Institute eksperimental'noy
meditsiny AMN SSSR.

(PASTEUR, LOUIS, 1822-1895)

GUREYEVA, N.M.

I.P.Pavlov's lectures at international congresses and conferences
(1900-1917). Fiziol.zhur. 46 no.6:764-767 Je '60. (MIRA 1/2)

1. From the I.P.Pavlov Museum, Institute of Experimental Medicine,
Leningrad.

(PAVLOV, IVAN PETROVICH, 1849-1936)
(PHYSIOLOGY-CONGRESSES)

GUREYEVA, V.M. [Gurisieva, V.M.]

Studying root system microflora of the grapevine. Pratsi Od. un.
Ser.biol.nauk no.8(vol.147):71-77 '57. (MIRA 12:4)
(Grapes) (Rhizosphere microbiology)

30(1)

SOV/21-59-5-21/25

AUTHOR: Gureyeva, V.M.

TITLE: Development Dynamics of Azotobacter in the Grapevine Rhizosphere

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1959, Nr 5, pp 543-545 (USSR)

ABSTRACT: Furthering the works on the dynamics of development of Azotobacter by M.O. Krasnolukov [Ref. 1] V.P. Tul'chinskaya, O.Ye. Savchuk and V.M. Gureyeva [Ref. 2] and T.Ye. Popova [Ref. 3], the author conducted a study of the subject matter during the vegetation period in 1954, in the vineyards of the Vsesoyuznyy nauchno-issledovatel'skiy institut vinodeliya i vinogradnichestva imeni Tayirova (All-Union Scientific Research Institute of Wine-Making and Viticulture named Tayirov). Azotobacter was found in the rhizosphere of the roots of White Shashla vines in a number greater than that of Riberia Rupestris 3309. Two periods of rise were observed, July

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SOV 21-09-5-21/25

Development Dynamics of Azotobacter in the Grapevine Rhizosphere

and October. The greatest number of Azotobacter was noted in the soil between vines in June, while it was altogether missing in the soil around the roots of the above named plants. It has been established that the development of Azotobacter in the rhizosphere of the vines depends not only on the presence of nutritive substances, but on the composition of root secretions as well. There is 1 table and 3 Soviet references.

ASSOCIATION: Odesskiy gosudarstvennyy universitet imeni I.I. Mechnikova
(Odessa State University imeni I.I. Mechnikov)

PRESENTED: By P.A. Vlasyuk, Member of the AS UkrSSR and of VASKhNIL

SUBMITTED: December 10, 1958

Card 2/2

RAKOVSKIY, V.Ye.; PETROV, L.K.; GUREYKO, V.S.; GALENCHIK, I.Z.; POZNYAK,
V.S.; KUNASHKEVICH, V.M.; BELYAY, K.I., red.; KORENEVICH, N.P., red.;
VERZAL, A.I.; red.; KOROBENNIKOV, Yu.Ye., red.

[Technological arrangement for the production of mineral wool
sheets with sapropel binding material] Razrabotka tekhnologii
proizvodstva plit iz mineral'noi vaty s sapropelevoi sviaskoi.
Minsk, Izd-vo "Zvezda," 1958. 14 p. (MIRA 12:2)
(Mineral wool) (Sapropels)

GUREYNOV, G.A.

Practice of multizone exploitation in the Siazan' oil field. Azerb.
neft. khoz. 39 no.1:25-26 Ja '60. (MIRA 14:8)
(Siazan' region--Oil fields--Production methods)

GUREYNOV, O. Kh.

Benches for checking KTM pipe tongs used with the APR-2 automatic device. Mash. i neft. obor. no. 10x14-15 '64
(MIRA 18:1)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po do-
byche nefti.

BENUNI, A.Kh., prof.; GURFEL', B.L., inzh.

Bases for designing a matrix model of the production costs of a mine. Izv. vys. ucheb. zav.; gor. zhur. 8 no.7:74-81 '65.

(MIRA 18:9)

1. Ural'skiy politekhnicheskii institut imeni Kirova.
Rekomendovana kafedroy ekonomiki organizatsii predpriyatiy
tsvetnoy metallurgii.

GURFEL', D.B.

Decomposition of sparingly soluble phosphorus compounds by
bacteria from the genus Pseudomonas. Trudy Inst. mikrobiol.
no.11:233-237 '61 (MIRA 16:11)

*

USSR.

Influence of glucose on the production of acetic acid by acetic acid-forming bacteria. M. S. Loitsyanskaya and D. B. Gurfel. *Trudy Leningrad. Obshchestva Estestvoispytatelei* 70, No. 3, 134-9 (1950).—*Bacterium schweizerbachii* grow more luxuriantly in the presence of HOAc and glucose or EtOH and glucose. In making HOAc from EtOH, small addns. of glucose will increase the growth of the bacteria, but larger amts. are to be avoided since the resultant growth consumes part of the HOAc formed. John Howe Scott

NEFEL', D. B.

"The Microbiological Characteristics of the Retting Process of the Chinese Bell Flower Under Various Water and Air Conditions." Cand Biol Sci, Leningrad State U, Leningrad, 1953. (RZhBiol, No 1, Sep 54)

S0: Sum 432, 29 Mar 55

LASTING, V.R.; GURFEL', D.B.

Method of quantitative count of fungi in soil. Mikrobiologiya 25
no 5:610-611 S-O '56. (MLRA 10:1)

1. Institut rasteniyevodstva i Institut melioratsii i osvoyeniya
osushennykh zemel' Akademii nauk Estonskoy SSR, Tallinn
(FUNGI,
in soil, count (Rus))
(SOIL, microbiology,
fungi, count (Rus))

GURFEL', D.B.

A new pectin fermenter. Mikrobiologiya 28 no.6:824-829 N-D '59.

(MIRA 13:4)

1. Estonskiy nauchno-issledovatel'skiy institut zemledeliya i
melioratsii, Tallinn.
(CLOSTRIDIUM)

GURFEL', D.B.

Bacterial starters for improving the high-temperature retting of
China jute. Trudy Vses. inst. sel'khoz. mikrobiol. no.14:309-
317 '58. (MIRA 15:4)

(Jute) (Retting)

24(3)

AUTHORS: Grazhdankina, N. P., Gurfel', D. I. SOV/56-35-4-11/52

TITLE: Radiographic Investigation of the Thermal Expansion of the Antiferromagnetic Compound MnTe (Rentgenograficheskoye issledovaniye teplovogo rasshireniya antiferromagnitnogo soyedineniya MnTe)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 4, pp 907-910 (USSR)

ABSTRACT: The investigation of the anomalous expansion or contraction in the temperature range of Neel point (T_N , transition from the paramagnetic to the antiferromagnetic state) makes it possible to draw conclusions as to the magnetic structure of the antiferromagnetic. Such investigations have already been carried out, viz. for cubic antiferromagnetic crystals (MnO, FeO, NiO) (Refs 1-3) as well as for hexagonal ones CrSb (Refs 5, 6) and MnTe (Greenwald)(Grinval'd)(Ref 7). The results obtained by this work (especially reference 7, comparison) are discussed in short. In the following the production and exact composition of the preparation investigated are given (Mn-99.8%, Te >99.999%); manganese contained S, C and P impurities (some tenth of a 1/000),

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Radiographic Investigation of the Thermal Expansion
of the Antiferromagnetic Compound MnTe

SOV/56-35-4-11/52

tellurium had impurities of Cu, Ag, Bi, Sb and As ($\sim 0.0001\%$). The samples had the shape of disks of 1 mm thickness with a diameter of 9 mm. The thermal expansion coefficient was determined by the radiographic method developed by Kosolapov and Trapeznikov (Ref 9) (initial values: Lattice constant $a = 4.040 \text{ \AA}$ (20°C), linear expansion coefficient $\alpha = 25.5 \cdot 10^{-6}/\text{degree}$; calculation of the lattice parameters according to the lines $(135)\alpha_1$, $(306)\alpha_1$ and $(135)\alpha_2$, $(306)\alpha_2$; photographic camera type: KPOC-1; tube with Cu anticathode, $\lambda K\alpha_1 = 1.537$, $\lambda K\alpha_2 = 1.541 \text{ \AA}$). Investigations were carried out in the temperature interval of $250 - 370^\circ\text{K}$ at $T_N = 310^\circ\text{K}$. The results obtained are shown by a table (9 temperature values). Figure 2 shows the temperature dependence of the lattice parameter α_c . The exponential rise up to the peak (T_N) is clearly marked; the following dip of the curve (at $T > 310^\circ\text{K}$) results in $\Delta\alpha_c$ of $12 \cdot 10^{-5}$, which deviates considerably from the Neel value ($6 \cdot 10^{-5}$) (Greenwald, $T_N = 329^\circ\text{K}$).

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Radiographic Investigation of the Thermal Expansion of the Antiferromagnetic Compound MnTe SOV/56-35-4-11/52

Finally, the dependence of T_N on a homogeneous pressure from all sides is investigated. Result:

$$dT_N/dp = 2.6 \cdot 10^{-3} \text{degree/kg} \cdot \text{cm}^{-2}.$$

The authors finally thank A. K. Barskaya for her help and valuable advice. There are 2 figures, 1 table, and 13 references, 2 of which are Soviet.

ASSOCIATION: Institut fiziki metallov Akademii nauk SSSR
(Institute for Metal Physics of the Academy of Sciences, USSR)

SUBMITTED: May 10, 1958

Card 3/3

L 8914-66 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(h) ALW/JD

ACC NR: AP5027141

UR/0126/65/020/004/0561/0565

AUTHOR: Sokolkov, Ye. N.; Surkov, Yu. P.; Gurfel', D. I.

ORG: Institute for the Physics of Metals, AN SSSR (Institut fiziki metallov AN SSSR)

TITLE: Effect of conditions of high temperature heat and mechanical treatment on the thin crystalline structure of chromium-nickel-manganese austenitic steel

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 4, 1965, ... 561-565

TOPIC TAGS: crystal structure, austenite steel, chromium steel, nickel steel, manganese steel, work hardening, metal heat treatment, plastic deformation/ EI481 chromium steel

ABSTRACT: A study was made of the fine crystal structure of chromium-nickel-manganese steel EI481 as a function of the conditions of high temperature heat and mechanical treatment: temperature and degree and rate of deformation. Samples with dimensions 50 x 50 x 75 mm were heated to 1200°0, held there for 1.5 hours, and deformed at this temperature and at 1100 and 1000° after cooling in the furnace

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UDC: 669.15.018.45

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ACC NR: AP5027141

Deformation was done by 25-30% upsetting in a press at a rate of 0.015, 0.0075, and 0.005 1/sec (the degree of deformation was evaluated by the change in height of the sample). After deformation (within 1-2 seconds), the samples were quenched in water. The test samples were subjected to metallographic and x-ray structural analysis. Study of the microstructure (illustrated in the article) shows that, as a result of high temperature heat and mechanical treatment, there appears a structure whose elements depend substantially on temperature and the rate and degree of plastic deformation. Treatment at 1200° at a minimum deformation rate leads to formation of subgrains with an average size of 30-40 microns. A decrease in deformation temperature to 1100° decreases the size of the subgrains to 15-20 microns. X-ray studies show that, in samples which have undergone conventional annealing, the grains have a sufficiently clear character with a small radial washing out, which probably indicates a certain elastic microdeformation of the lattice. For material subjected to high temperature heat and mechanical treatment, the x-ray studies indicate the formation within the grains of large mutually unoriented regions of the crystal lattice, that is, fragments. The magnitude of the plastic deformation has a complicated effect on the formation of the thin crystalline structure. At small reductions, the fragmentation of the structure is observed mainly in regions near the

Cord

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grain boundaries while, with an increased degree of deformation,
this process gradually extends over the whole volume of the grain.
Orig. art. has: 3 figures.

SUB CODE: MM/ SUBM DATE: 15Aug64/

ORIG REF: 011

OTH REF: 004

PC
Card 3/3

B C

R III S

Bacterial counts in water. L. N. GUMBIN (Ark.
biol. Nauk, 1960, 80, 549-547).—A comparative study
of the methods usually employed.

CHEMICAL ABSTRACTS.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

ECONOMY OF STEELMAKING

SOURCE OF DATA

PUBLISHED BY THE AMERICAN SOCIETY FOR METALS

PROCESSES AND PROPERTIES INDEX																									
<p>ca</p> <p>Making bakers' yeast from sulfite liquor. L. N. Gurkin and V. Ya. Chastukhin. <i>Izvestiya Tsvetn. Khim. Tekhnol. Inst. Pishchevi Vsesoi. Prom.</i>, No. 9, 35 pp. (1932).—Sulfite liquor, if neutralized and enriched in nutrients yielding N and P, is an excellent medium for cultivation of bakers' yeast. Heating for 1 hr. with steam after neutralization increases the sugar content; excessive heating destroys the sugar. The optimum sp. gr. of the liquor is 1.050-1.060; higher concns. introduce plasmolytic effects. Yield depends on degree of aeration and may be 40-100% of the sugar. The yeast which is produced has a relatively high dry matter content, namely 20.8%. Yeast production is one of the most profitable means for biochem. utilization of sulfite liquor.</p> <p>Julian P. Smith</p>																									

ROVENSKAYA, E.M.; GURFEYN, L.N.; DMITRIYEVA, Ye.K.

Letter to the editor. Lab.delo no.6:20-21 M-D '55.

(MIRA 12:6)

(WATER--BACTERIOLOGY) (ESCHERICHIA COLI)

GURFEYN, L. N., PAVLOVA, Z. K., BASHMAKOVA, T. A. and IOFAN, S. S.

"Experimental Substantiation of the Maximum Permissible Concentration of Nitrochlor-benzene in Water when Releasing Runoff Water into Reservoirs," paper presented at the Scientific Conference of the Leningrad Sanitation Institute, 8-10 May 1956.

U-3,054,017

GURFEYN, L. N., PAVLOVA, Z. K. and ~~BOBOKOVA~~, L. F.

"Comparative Hygienic Characteristics of Certain Aliphatic Amines
as a Result of the Establishment of Norms for Releasing Runoff Water into Reservoirs,"
paper presented at the Scientific Conference of the Leningrad Sanitation Institute,
8-10 May 1956.

U-3,054,017

GURFEYN, S.N.

On the standardization of electric household appliances.
Standartizatsiia no.6:61-64 N-D '54. (MIRA 8:10)

1. Nachal'nik byuro normalizatsii i standartizatsii lenin-
gradskogo zavoda "Elektrik"
(Household appliances, Electric--Standards)

GURFIL', S., inzh.

Device for the adjustment of the heeling error of ships. Mor.
flot 20 no.1:30-31 Ja '60. (MIRA 13:5)

1. Tekhnicheskiiy otдел Chernomorskogo parokhodstva.
(Magnetic instrument) (Stability of ships)

GURFIL', Sh.; KULASHIN, Ye.

Foremost in performance. Mor. flot 21 no.10:36-37 0 '61.
(MIRA 14:9)

(Freighters)

GURFIL', Sh.S., inzh.; SOKOLOV, V.I., inzh.

The crew of the motorship "Komsomol" strives for the title of a ship of communist labor. Biul.tekh.-ekon.inform.Tekh.upr.Min.mor.flota
5 no.4:3-12 '60. (MIRA 15:1)

1. Chernomorskoye gosudarstvennoye morskoye parokhodstvo.
(Tank vessels)

I 9415-66 EWT(1)/EWP(m)/EWA(d)/FCS(k)/ETC(m)/EWA(1) IN

ACC NR: AP5026937

SOURCE CODE: UR/0375/65/000/005/0152/0153

AUTHOR: ^{44.55}
Gurfink, M. M. (Moscow)

64
61
B

ORG: none

TITLE: A strong injection into a turbulent boundary layer

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 5, 1965, 152-153

TOPIC TAGS: fluid mechanics, mass transfer, laminar friction, laminar flow, injection well, turbulent boundary layer, turbulent flow

^{1,55}
ABSTRACT: A turbulent boundary layer with a very intense transverse injection was studied in the flow of an ⁵⁵incompressible fluid around a flat plate. A condition for determining the thickness of the laminar sublayer is proposed, thus enabling the acquisition of information concerning the immediate effect of injection. The condition is based upon a selection of the local Reynolds' number characterizing the flow stability at a certain point. The ordinary condition for the thickness of the laminar sublayer in the absence of injection is determined as a special case. The thickness of the laminar sublayer is obtained from the condition of equality of the local Reynolds' number, evaluated from the mean-square pulsation velocity $\langle u'^2 \rangle$, and the degree of turbulent motion at a given point, to some constant value

$$R = \frac{\langle u'^2 \rangle l}{\nu} = \text{const.}$$

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ACC NR: AP5026937

In this equation ℓ is the length of the Prandtl displacement path and ν is the kinematic viscosity coefficient. It is also true that

$$\frac{y^*}{\nu} \frac{\partial u}{\partial y} = \alpha^2,$$

where y is the coordinate normal to the surface and u is the velocity along the surface. This equation, combined with the expression

$$u^* = (1/\nu_w^*) [\exp(\nu_w^* y^*) - 1],$$

for the velocity distribution in the laminar sublayer, yields the formulae

$$y_l^* \exp\left[\frac{\nu_w^* y_l^*}{2}\right] = \alpha, \quad u_l^* = \frac{1}{\nu_w^*} \left[\left(\frac{\alpha}{y_l^*}\right)^2 - 1\right]$$

for the dimensionless thickness of the laminar sublayer and the velocity along its boundary (ν is the velocity component along y ; the subscript w denotes the condition at the "wall" surface, and ℓ denotes condition at the laminar sublayer boundary). An expression for the velocity profile in the turbulent part of the boundary layer is derived and is used in obtaining the following equation for the friction law

$$\ln[(0.7 R \sqrt{C_f/2})/y_l^*] = (2\kappa/\nu_w^*) \left(\sqrt{1 + \nu_w^*/\sqrt{C_f/2}} - \sqrt{1 + \nu_w^* u_l^*} \right).$$

A plot (see Fig. 1) of the preceding equation indicates that friction is very markedly affected by the intensity of injection and by Reynolds' number in the range $R_0 < 10^5$. The author thanks V. M. Iyevlev for his critique.

44, 35

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I 2415-00

ACC NR: AP5026937

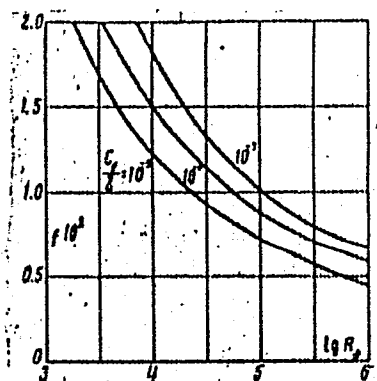


Fig. 1.

Orig. art. has: 7 equations and 3 figures.

SUB CODE: 13/ SUBM DATE: 02Dec64/ ORIG REF: 003/ OTH REF: 001

Card 3/3 *Ad*

GUREVICH, L. V., kand.tekhn.nauk; GURFINK, T. Sh., inzh.; SOSKIN, G. M.,
kand. tekhn. nauk

Landscaping and problems in designing city streets. Nov.tekh.
zhil.-kom.khoz.:Gor.dor.-most.khoz. i transp. no. 2:9-12 '63.
(MIRA 17:5)

GURFINKEL', A.S.

25973 Gurfinkel', A.S. Klinicheskoye Tekhnicheskoye Tulyareniy-Nogo
Porazheniya Glaz. Sbornik Nauch. Fatot Lechet. Uchrezhdeniy Mosk. Voen.
Okr. Ger'kiy, 1948, S. 333-38.
SO: Letopis' Zhurnal Statey, No. 30, Moscow 1948.

BREYDO, M., inzh.; GURFINKEL, B., vrach.

Thought operates machines. Tekh. mol. 26 no.4:3-4 '58. (MIRA 11:3)
(Artificial arms) (Electromyography)

GURFINKEL', B. B.

"Some Comments on English-Russian Dictionary of Special Radio Terms,"
Radiotekh., 3, No. 4, 1948.

GURFINKEL', B. [5]

PA 4/49T94

USSR/Radio

May 48

Vacuum Tubes, Cathode Ray
Photography, Cathode Ray

"Electron Ray Tube," B. Gurfinkel', 6 pp

"Radio" No 5

Discusses basic construction and operation of
electron ray tube, methods of regulating electron
emission, magnetic deflection, expansion of the
image on the screen, and modulation on basis of
light intensity of the image.

4/49T94

GURFINKEL', B

B

N/5

652.42

Priyemno-usilitel'nyye elektronnyye lampy (Receiving and Amplifying
Vacuum Tubes) Moskva, Gosenergoizdat, 1949.

174 p. diagrs., graphs, tables. Bibliographical footnotes.

GURFINKEL', B.

"Oscillograph and Its Use by Radio Amateurs," Radio, No. 2, 1949.

GURFINKEL', B.

Gurfinkel', B. - "Transmission lines," Radio, 1949, No. 3, p. 33-35 (To be continued)

SO: U-4034, 29 Oct 52, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949)

GURFINKEL! B.

25706 Gurfinkel! B. Peredayushchie lini. Radio, 1949, No: 8,
5. 29-32--Okonchanie. Nachalo: NO: 3

SO: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

BARDAKH, I.M.; TROITSKIY, L.V.; GURFINKEL', B.B., redaktor; LARIONOV, G.Ye.,
tekhnicheskii redaktor

[Amateurs' television sets] Liubitel'skie televizory. Moskva, Gos.
energ. izd-vo, 1951. 119 p. (Massovaya radio-biblioteka, no.90)
[Microfilm] (MLRA 9:11)
(Television--Receivers and reception)

GURFINKEL, B.B.

Category : USSR/Radiophysics - Statistical Phenomena in Radiophysics

I-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4443

Author : Gurfinkel', B.B.

Title : Television Systems with Statistical Matching.

Orig Pub : Radiotekhn. i elektronika, 1956, 1, No 4, 478-496

Abstract : Statistical matching of the source of communication with the communication channel makes it possible theoretically to obtain a considerable gain in the bandwidth of the communication channel for the transmission of high-quality television images.

For this matching it is necessary, on the basis of Shannon's 8th theorem, to effect a nonlinear transformation of the time scale of the original signal function in accordance with the following law

$$d\tau/dt = -\log p_i/H$$

where τ (τ) is the connection between the initial time t and the "transformed" time τ . The time transformation operation can be carried out with the aid of "memory" devices, having different speeds of storage

Card : 1/2

Category : USSR/Radiophysics - Statistical Phenomena in Radiophysics

I-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4443

and extraction of information. It is shown that laws for the scanning of television systems with variable speeds of image resolution can be derived from the general expression given above. Certain ideas concerning the noise-rejection of such systems are given.

Card : 2/2

6(4), 7(7)

SOV/108-13-12-10/12

AUTHOR: Gurfinkel', B. B.

TITLE: On the Design of Video-Frequency Amplifiers With Minimum Delay
(O postroyenii vidousiliteley s naimen'shim zapazdyvaniyem)

PERIODICAL: Radiotekhnika, 1958, Vol 13, Nr 12, pp 77-79 (USSR)

ABSTRACT: The calculation of a video-frequency amplifier with given gain M , band width W , and minimum delay t_d from input to output is given. Diagrams for the dependence of M , W , and t_d are set forth. They facilitate the design of amplifiers of this type. The best tube is shown to be that with the designation 6E5P. This tube offers the possibility of constructing a four-stage video amplifier without correction and with a band width of 8 - 10 megacycles, a gain of 500, and a delay of the order of 0.01 μ sec. Basing on the data given herein, video amplifiers were built with a band width of 5 - 6 megacycles, a gain of 400, and a delay of not more than 0.08 - 0.1 μ sec. from input to output.

Card 1/2 I. A. Nikulenko contributed the calculations for plotting the diagrams. There are 2 figures, 3 tables, and 3 Soviet ref-

SOV/108-13-12-10/12

On the Design of Video-Frequency Amplifiers With Minimum Delay

erences.

SUBMITTED: October 29, 1957

Card 2/2

BARON, M.S.; GURFINKEL', I.I.

Quantitative determination of dibazole in a mixture with papaverine hydrochloride and diuretin. Apt. delo 10 no.3:32-34 My-Je '61.
(MIRA 14:7)

1. Kontrol'no-analiticheskaya laboratoriya Kiyevskoy oblasti.
(BENZIMIDAZOLE)

GURFINKEL, I. YE.

(DECEASED)

1963/2

c' 1962

GLASS MANUFACTURE

see ILC

GURFINKEL', K.

Uniform time norms for underground operations in the coal mining
and slate industry. Biul. nauch. inform.: trud i zar. plata 3
30-32 '60. (MIRA 14:1)

(Slate—Production standards)

(Coal mines and mining—Production standards)

<div style="display: flex; justify-content: space-between;"> CA PROCESSES AND PROPERTIES INDEX 18 </div> <div style="text-align: center; margin-top: 20px;"> <p>Rotary pyrite burner. M. A. Gurliakel (Giprokhim).</p> <p>-Khim. Prom. 1946, No. 9, 9-11.—Structural details.</p> <p>M. Hosh</p> </div>																																																																													
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<p>CA</p> <p>Mechanization of clinder removal in sulfuric acid plants. M. A. Gurdakel', <i>Khim. Prom.</i> 1946, No. 11, 9-11. Mechanized clinder removal from burners, cooling, and loading in railroad cars, and mechanized dust removal and disposal from filters and precipitators in a H_2SO_4 plant are described. M. Hosh</p>		18
<p>ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>		
<p>FROM SYNDICATE</p>		<p>FROM BOMBY</p>
<p>STANDARD</p>		<p>STANDARD</p>

1ST AND 2ND ORDERS												2ND AND 4TH ORDERS											
PROCESSES AND PROPERTIES INDEX																							
<div style="display: flex; justify-content: space-between;"> CA 18 </div> <p>Cooler for (pyrite) cinder. M. A. Gurinkel. <i>Khim. Prom.</i> 1946, No. 12, 10.—An externally water-cooled rotary tube for cooling cinder in H_2SO_4 plants is described. The cinder enters at 700° and leaves at 40-50°. M. H.</p>																							
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SUBDIVISION												SUBDIVISION											
1ST AND 2ND ORDERS												2ND AND 4TH ORDERS											

GURFINKEL, M. A.

Chemical Abstracts
May 25, 1954
Acids, Alkalies and
other Heavy Chemicals

①
Mechanization of laborious operations in the sulfuric acid industry. M. A. Gurfinkel. *Khim. Prom.* 1947, 301-3. —
List of measures to mechanize laborious operations in storage and grinding of pyrite, combustion of pyrite, acid storage, and sludge removal from coolers and settlers.

I. Z. Kantich

10-11-54

10-11-54

GURFINKEL', M. A.

PA 58T13

USSR/Chemistry - Cooling Apparatus
Chemistry - Sulfuric Acid

Apr 1947

"Contemporary Makes of Sulfuric Acid Coolers," M. A.
Gurfinkel', Engr, GiproKhim, 1 p

"Khim Prom" No 4

Describes common types of sulfuric acid coolers:
pipe type for oil of vitriol, pipe within pipe
cooler, methods for improving apparatus and con-
struction of sprinkler-type coolers, and utilization
of water containing chromates.

 58T13

GURFINKEL, M. A.

PA4OT22

USSR/Engineering
Industrial Equipment
Sulfuric Acid

Oct 1947

"Mechanization of Heavy-duty Operations in the Sulfuric Acid Industry," Engr, M. A. Gurfinkel', GIPROKhim, 2 pp

"Khim Promy'" No 10

Briefly describes mechanization accomplished in the more laborious operations in sulfuric acid industries. Discusses mechanization of the process of storing pyrite, mechanization of furnace departments, mechanization of some of the heavier work in the acid-storing department, and light mechanization, especially in repair work around the various shops.

4OT22

GURWINKEL, M. A.

Mekhanizatsiya popuzochno-razguzochnykh rabot v khimicheskoy
promyshlennosti.
Moscow, Gosudarstvennoe Nauchno-Tekhnicheskoe izdatel'stvo Khimicheskoy
Literatury, 1981. pp. 256, photos, diagrs., tabs., bibliogr.; 22 x 15;
blue boards.

POLYAKOV, Konstantin Andreyevich; GURFINKEL', Moisey Aronovich; SAGALAYEV, G.V.
redaktor; AYZENSHTAT, I.I., redaktor; SHPAK, Ye.G., tekhnicheskiiy redaktor

[Corrosion and means of protecting equipment in the sulfuric acid
industry] Korroziia i sposoby zashchity oborudovaniia v sernokislotoi
promyshlennosti. Pod red. G.V.Sagalaeva. Moskva, Gos. nauchno-tekhn.
izd-vo khim. lit-ry, 1956. 214 p. (Korroziia v khimicheskikh proizvod-
stvakh i sposoby zashchity, no.?) (MLRA 9:8)

(Corrosion and anticorrosives)
(Sulfuric acid industry)

118-52-6-9/21

AUTHOR: Gurfinkel', M.A. and Shvartsshteyn, Ya.V., Engineers

TITLE: Mechanized Removal of Pyrite Cinder (Mekhanizatsiya udaleniya piritnogo ogarka)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 6, pp 21-23 (USSR)

ABSTRACT: The removal of pyrite cinder is difficult to mechanize, and the existing installations for the cooling and removal of cinder are still inefficient. The authors deal with transportation equipment which is suitable for lasting exploitation and is already in use at sulphuric acid plants. The following 3 methods of cinder cooling and removing are described: 1) cooling barrels and belt conveyers, 2) cooling and transportation pipes, and 3) the hydraulic removal of cinder by an exclusive water circle. The hydraulic method is said to be best. At present, the sulphuric acid plants have stored approximately 18.4 million tons of pyrite cinder, of which amount the metallurgical industry utilized only 118,000 tons in 1956, inflicting heavy losses on the national economy.

Card 1/1 There are 4 diagrams.

1. Industry--USSR 2. Sulfuric acid--Production 3. Pyrites--Cinders
--Control methods 4. Hydraulics--Applications

AUTHOR: Gurfinkel', M.A., Engineer SOV/118-58-11-2/19

TITLE: Loading, Unloading and Storage Operations in the Basic
Chemical Industry (Pogruzochno-razgruzochnyye iskladskiye
raboty v osnovnoy khimicheskoy promyshlennosti)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 11,
pp 6-11 (USSR)

ABSTRACT: This is a detailed description of the mechanized loading,
unloading and transportation operations in chemical plants
(ordinary and flotation pyrites in plants producing sulfuric
acid; apatite concentrates or phosphate powder in super-
phosphate plants). Mechanical shovels, different types of
cranes, bulldozers, belt conveyers, chain lifts, etc. are
used. There are 6 diagrams and 1 table.

1. Chemical industry---USSR 2. Industrial equipment---USSR
3. Materials--Handling

Card 1/1

GURFINKEL', M.A.; SOROKIN, S.F.; ULIKOVSKIY, L.G. Primal uchastiye
KUZNETSOV, S.V. D'YACHKOV, V.K., kand.tekhn.nauk, retsenzent;
NIKOLAYEVSKIY, G.M., kand.tekhn.nauk, retsenzent; ZENKOV, R.L.,
doktor tekhn.nauk, red.; SAVEL'YEV, Ye.Ya., red.izd-va;
SOKOLOVA, G.F., tekhn.red.; UVAROVA, A.P., tekhn.red.

[Conveying and loading and unloading machinery used in the chemical
industries] Transportnye i pogruzochno-razgruzochnye mashiny
v khimicheskoi promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1960. 495 p. (MIRA 13:12)

(Conveying machinery) (Loading and unloading)
(Chemical industries--Equipment and supplies)

KAUKHCHESHVILI, Ernest Ivanovich, kand. tekhn. nauk; PUGACHEV, Yu.G.,
inzh., retsenzent; GURFINKEL', M.A., inzh., retsenzent;
RYZHOVA, L.P., red. izd-va; CHERNOVA, Z.I., tekhn. red.;
VLADIMIROVA, L.A., tekhn. red.

[Hoisting and conveying devices for refrigeration shops] Gruzopod'emnye i transportnye ustroistva kholodil'nykh tsekhov. Moskva, Mashgiz, 1962. 176 p. (MIRA 15:7)
(Conveying machinery) (Hoisting machinery)

GURFINKEL', M.A.

Mechanization of labor-consuming work in warehouses, furnace
and preparation sections of sulfuric acid plants. Khim.prom.
no.4:300-305 Ap '62. (MIRA 15:5)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
osnovnoy khimicheskoy promyshlennosti.
(Sulfuric acid industry--Equipment and supplies)

GURFINKEL', M.B.

Cutaneous nerves in certain dermatoses. Vest. vener., Moskva no.1:13-
16 Jan-Feb 1953. (OLML 24:2)

1. Of the Skin and Children's Departments of Odessa Dermato-Venereologi-
cal Institute imeni Ye. S. Glavche (Director -- B. I. Shpolyanskiy).

GURFINKEL', M. M.

GURFINKEL', M. M. "Vegetative disorders in cerebral-spinal wounds and shell shock",
In the collection: Boyevaya travma nervnoy sistemy, Khar'kov, 1948, p. 143-51.

SO: U-3261, 10 April 53 (Letopis - Zhurnal 'nykh Statey No. 11, 1949)

GURFINKEL', M. M.

GURFINKEL', M. M. "Embolism of the brain vessels following a bomb-fragment injury of the heart", In the collection: Boyevaya travma nervnoy sistemy, Khar'kov, 1948, p. 159-63.

SO: U-3261, 10 April 53 (Letopis - Zhurnal 'nykh Statey No. 11, 1949)

GURFINKEL¹, M.M.; TOROPOVA, M.N.

Clinical aspects of cerebral cysticercosis. Zhur. nevr. i psikh.
54 no.6:572-578 Je '54. (MLRA 7:7)

1. 'Sentral'naya klinicheskaya psikhonevrologicheskaya i neyro-
khirurgicheskaya bol'nitsa Ministerstva putey soobshcheniya SSSR.
(BRAIN, diseases, (CYSTICERCOSIS,
*cysticercosis) *brain)

CONTINUED, 1977

GURFINKEL', M.M.

Bilateral and symmetric lesions in vascular diseases of the brain
[with summary in French]. Zhur.nevr. i psikh. 57 no.8:967-971 '57.
(MIRA 10:11)

1. Tsentral'naya klinicheskaya psikhonevrologicheskaya i nevro-
khirurgicheskaya bol'nitsa (nachal'nik V.M.Yushtin) Ministerstva
putey soobshcheniya SSSR, Khar'kov.

(CEREBRAL HEMORRHAGE, pathology,
bilateral & symmetric lesions (Rus))

RABINOVICH, D.M., inzh.; GURFINKEL', O.L., inzh.; SEREBRYAKOV, V.S., inzh.

New technology for the hardening of rail ends. Stal' 20 no. 7:650
J1 '60. (MIRA 14:5)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.
(Steel--Quenching) (Railroads--Rails)

GUBERT, S.V., inzhener; GURFINAEL', O.S.

Adjusting track shoes on roll straightening machines. Stel' 16
no.12:1133-1134 D '56. (MIRA 10:9)

1. Novo-Tagil'skiy metallurgicheskiy zavod.
(Rolling mills)

GURFINKEL', R.N.

Organization of fire safety in the Krasnodar Administration.

Transp. i khran. nefti no.10:22-24 '63.

(MIRA 17:9)

1. Krasnodarskoye upravleniye Glavnogo upravleniya po transportu i snabzheniyu nef't'yu i nefteproduktami RSFSR.

GURFINKEL', V. S.

Gurfinkel', V. S. - "Biodynamic principles of the rational formation of leg-hinged appliances in prosthesis of the hip," Trudy Tsentr. nauch.-issled. in-t protezirovaniya i protezostroyeniya, symposium 3, 1949, p. 99-115

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

Cand Med Sci

GURFINKEL', V. S.

Dissertation: "Our Experiment for Solving the Problem of Transferring the Limb
with a Prosthesis over Support (After One-sided Amputation of a Hip.)"
21/3/50

Central Inst for Advancement of Physicians

SO Vecheryaya Moskva
Sum 71

RABSKIY, Ye.B.; GURFINKEL', V.S.; ROMEL', Ye.L.

New method and certain results of investigation of vestibular motor reflex in inadequate stimulation of the vestibular apparatus in man. Vest. otorinolar., Moskva 14 no. 5:19-22 Sept-Oct 1952.

(GLML 23:3)

1. Of the Laboratory of the Physiology of Movement, Central Scientific-Research Institute for Prostheses and Prostheses Manufacture.

Book 10002, V. 5
BABSKIY, Ye.B.; MYASNIKOV, A.L.; GURFINKEL', V.S.; ZAMYSLOVA, K.N.; ROMEL', Ye.L.

First results of clinical application of cardiocirculography.
Ter. arkh., Moskva 24 no.1:68-76 Jan-Feb 52. (CML 21:4)

1. Of the Institute of Therapy (Director—Prof. A.L. Myasnikov, Active Member AMS USSR) of the Academy of Medical Sciences USSR and of the Physiological Laboratory (Head—Prof. Ye.B. Babskiy, Active Member of the Academy of Sciences Ukrainian SSR), Central Scientific-Research Institute for Prostheses.

GURFINKEL

BABSKIY, Ye. B.; GURFINKEL', V.S.; ROMEL', Ye. L.; YAKOBSON, Ya. S.

New method of investigation of cardiac function and respiration
in man. Doklady Akad. nauk SSSR 83 no.6:952-960 21 Apr 1952.
(CLML 22:2)

1. Presented by Academician A. I. Abrikosov 22 February 1952.
2. Institute of Animal Morphology imeni A. N. Severtsov.

GURFINKEL, V.S.
BABSKIY, Ye. B; VINOGRADOVA, T. S; GURFINKEL', V.S; ROMEL',
Ye. L; YAKOBSON, Ya. S.

New method of investigation on the vascular reactions in
various parts of the body. Doklady Akad. nauk SSSR 84 no.
1:189-192 1 May 1952, (CLML 22:2)

1. Active Member of the Academy of Sciences Ukrainian SSR for
Babskiy.

BABSKIY, Ye.B.; VINOGRADOVA, T.S.; GURFINKEL', V.S.; MESHALKIN, Ye.N.

Physiological analysis of cardiohemodynamogram. Doklady Akad. nauk
SSSR, 88 no. 2:365-368 11 Jan 1953. (CML 24:1)

1. Active Member of the Academy of Sciences Ukrainian SSR for Babskiy.

BABSKIY, B.B., deystvitel'nyy chlen; VINOGRADOVA, T.S.; GURFINKEL', V.S.;
YAKOBSON, Ya.S.

Physical characteristics of cardiohemodynamograms. Dokl.AN SSSR 92 no.1:185-
188 S '53. (MIRA 6:8)

1. Akademiya nauk Ukrainskoy SSR (for Babskiy). (Electrocardiography)

BABSKIY, Ye.B.; GURFINKEL', V.S.; ROMEL', E.L.; YAKOBSON, Ya.S.

Capsule for electric registration of slight fluctuations in pressure. *Biul. eksp. biol. i med.* 37 no.2:75-77 F '54. (MLRA 7:6)

1. Iz fiziologicheskoy laboratorii (zav. deystvitel'nyy chlen AN USSR prof. Ye.B. Babskiy) Tsentral'nogo nauchno-issledovatel'skogo instituta protezirovaniya i protezostroyeniya, Moskva.
(BLOOD PRESSURE,

*appar. for electric registration of small oscillations)
(PHYSIOLOGY, apparatus and instruments,
electric registration of small oscillations of pressures)

BABSKIY Ye. B.; GURFINKEL, V.S.

New methods of registering pulsewaves (electrosphygmography).
Biol. eksp. biol. i med. 37 no.3:74-76 Mr '54. (MLBA 7:6)

1. Iz laboratorii AMN SSSR pri fakul'tetskoy khirurgicheskoy
klinike (dir. chlen AMN SSSR prof. A.N.Bakulev) II Moskovskogo
meditsinskogo instituta imeni I.V.Stalina.

(PULSE,

*electrosphygmography)

GURFINKOL', V.S.

BABSKIY, Ye. B.; GURFINKOL', V.S.; ROMEL', E.L.; YAKOBSON, Ya.S.

New method of studying the stability of man in an erect position;
method of stabilography. Fiziol. zhur. 41 no.3:423-427 My-Je '55.

(MLRA 8:8)

1. Iz Laboratorii fiziologii Tsentral'nogo nauchno-issledovatel'-
skogo instituta protezirovaniya i protexostroyeniya, Moskva.

(POSTURE,

registration of stability of man in erect position)

*Cent Sci Res Inst of Prosthetics
Prosthetic Design*

GURFINKEL', V.S., starshiy nauchnyy sotrudnik; YAKOBSON, Ya.S., inzhener

Studying the kinematics of the knee joint. Ortop., travm. i protez.
17 no.3:69-70 My-Je '56. (MIRA 9:12)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta proteziro-
vaniya i protezostroyeniya (dir. - prof. B.P.Popov)
(KNEE JOINT--RADIOGRAPHY)

GURFINKYEL', V.

USSR/Human and Animal Physiology - Neuro-Muscular
Physiology.

V-11

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4358

Author : T. Vinogradova, V. Gurfinkyel', Ya. Slavutskiy,
B. Khodorov

Inst : Central Institute of Prosthetology

Title : A Physiological Analysis of Walking with an Artificial
Limb after Removal of the Femur.

Orig Pub : In: 5-aya nauchnaya sessiya Tsentr. n.-i. in-ta protye-
zir. i protyezostroyeniya, M., 1956, 155-169

Abstract : The use of a prosthesis after the shelling out of the
femur is possible thanks to a series of compensatory
mechanisms: unbending in the pelvo-femoral joint of
the healthy leg simultaneously with the bending in the
lumbar region of the vertebral column; increased

Card 1/2

USSR/Human and Animal Physiology - Neuro-Muscular
Physiology.

V-11

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4358

rotation of the pelvis in relation to the vertical
axis which passes through the head of the femur of
the healthy leg; lifting of the prosthethized side,
the body being deviated towards the side of the
healthy limb.

Card 2/2

A Bioelectric Control System.

20-1-20/42

level. An added diagram illustrates an oscillogram of the bio-currents which were deduced from different stretched finger-joint by applied electrodes. These deduced biocurrents develop by the total effect of the muscle fibres of a certain muscle and the numerous oscillations of the fibres of the adjacent muscles provide an additional noise-background. The first problem in the experiments with these complicated signals was the elimination of the informations on the orders from the central nervous system, which regulate the level of the tension of the muscle. As carrier of the useful information in the here discussed system only one parameter of the bioelectric system is used, that is efficiency. The authors hope for application of further parameters. The block scheme of the control system is illustrated by a graph and its function method briefly described. The system is constructed so that the biocurrents are deduced by two antagonal muscles at the same time. In the case of technical application it is well possible to connect a circuit with feed-back coupling into the wiring diagram of the control system, which circuit is based on the application of special, automatic transmitters. There are 2 figures, and 2 references, 1 of which is Slavic.

Card 2/3

A Bioelectric Control System.

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ASSOCIATION: Institute of Mechanics of the AN USSR, Central
Scientific Research Institute for the Construction of Artificial Limbs, Moscow State University imeni M.V.Lomonosov
(Institut mashinovedeniya Akademii nauk SSSR. Tsentral'nyy nauchno-issledovatel'skiy institut protezirovaniya i protezostroyeniya, Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova)

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